

Sub A27
WHAT IS CLAIMED IS:

1 1. A vehicular communication apparatus comprising:

2 at least one helmet worn by an operator of a vehicle, said at least one helmet
3 incorporated with a speaker and a microphone mounted thereon, and further including a
4 mounted helmet side infrared transmitter/receiver connected to the speaker and the microphone;

5 a vehicle body provided with a vehicle body side transmitter/receiver for carrying out
6 infrared communication with the helmet side infrared transmitter/receiver; and

7 wireless communication means connected to the vehicle body side infrared
8 transmitter/receiver and arranged with communication operating means separately from the
9 wireless communication means in at a position operably accessible to the operator during
10 operation of the vehicle.

1 2. The vehicular communication apparatus according to claim 1, wherein the vehicle is a
2 handlebar type vehicle, and the communication operating means is arranged at a vicinity of a
3 grip of the handlebar.

1 3. The vehicular communication apparatus according to claim 1, wherein the vehicle is a
2 handlebar type vehicle, the vehicle body side infrared ray transmitter/receiver is arranged at a
3 position offset to either a left side and a right side of the handlebar; and the helmet side infrared
4 ray transmitter/receiver is arranged at least at a front face of the helmet.

1 4. The vehicular communication apparatus according to claim 3, wherein the
2 communication operating means arranged at the vicinity of the grip is combined with the
3 vehicular side infrared ray transmitter /receiver to thereby constitute an integrated module.

1 5. The vehicular communication apparatus according claim 1, further comprising a
2 display unit for indicating a transmitting/receiving state of the wireless communication means,
3 said display unit disposed in a vicinity of the grip of the handlebar.

1 *Sub #27* 6. A vehicular communication apparatus comprising:
2 at least one helmet worn by an operator of a vehicle, said at least one helmet
3 incorporated with a speaker and a microphone mounted thereon, and further including a
4 mounted helmet side infrared transmitter/receiver connected to the speaker and the microphone;
5 wireless communication means connected to the helmet side infrared ray
6 transmitter/receiver, said wireless communication means being carried or attached to the
7 operator; and

8 a vehicle body mounted with a vehicle body side infrared transmitter/receiver for
9 carrying out infrared communication with the helmet side infrared ray transmitter/receiver and
10 arranged with communication operating means separately from the wireless communication
11 means at a position operably accessible to the operator during operation of the vehicle.

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1 7. The vehicular communication apparatus according to claim 7, wherein the vehicle is a
2 handlebar type vehicle, and the communication operating means is arranged at a vicinity of a
3 grip of the handlebar.

1 8. The vehicular communication apparatus according to claim 7, wherein the vehicle is a
2 handlebar type vehicle, the vehicle body side infrared ray transmitter/receiver is arranged at a
3 position offset to either a left side and a right side of the handlebar; and the helmet side infrared
4 ray transmitter/receiver is arranged at least at a front face of the helmet.

1 9. The vehicular communication apparatus according to claim 9, wherein the
2 communication operating means arranged at the vicinity of the grip is combined with the
3 vehicular side infrared ray transmitter /receiver to thereby constitute an integrated module.

1 10. The vehicular communication apparatus according claim 7, further comprising a
2 display unit for indicating a transmitting/receiving state of the wireless communication means,
3 said display unit disposed at a vicinity of the grip of the handle bar.

Cont. Sub-A2-7

1 11. A vehicular communication apparatus, comprising :
2 a helmet worn by a passenger of a handlebar type small-sized vehicle, said helmet
3 incorporated with a speaker and a microphone and mounted with a helmet side infrared ray
4 transmitter/receiver connected to the speaker and the microphone; and

5 a vehicle body is arranged with a vehicle body side infrared transmitter/receiver for
6 carrying out infrared ray communication with the helmet side infrared ray transmitter /receiver
7 said vehicle body side infrared transmitter receiver disposed at a position offset either a left side
8 and a right side of the handle bar.

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